

Title (en)  
MEMBRANE STRIP BIOSENSOR SYSTEM FOR POINT-OF-CARE TESTING

Title (de)  
MEMBRANSTREIFEN-BIOSENSORSYSTEM ZUM POINT-OF-CARE-TESTEN

Title (fr)  
SYSTEME BANDE BIOCAPTEUR A MEMBRANE PERMETTANT D'EFFECTUER DES TESTS SUR LE LIEU DES SOINS

Publication  
**EP 1618383 A4 20070110 (EN)**

Application  
**EP 04728716 A 20040421**

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Abstract (en)  
[origin: WO2004097419A1] The present invention relates to a biosensor for point-of-care testing (POCT) whose detection sensitivity was remarkably improved by introducing to membrane strip chromatographic assay system a successive cross-flow procedure for immune reaction and enzymatic reaction. The present invention relates to a membrane strip biosensor system that comprises: (a) a membrane pad (10) for sample application; (b) a membrane pad (20) for release of detection binding component, wherein the membrane pad (20) contains label-linked binding component for detection in a dry state; (c) a signal generation membrane pad (30) with immobilized binding component for capture; (d) a membrane pad (40) for absorption of vertical flow medium; (e) a membrane pad (50) for the supply of substrate solution for enzyme; (f) a membrane pad (60) for absorption of horizontal flow medium and (g) substrate solution.

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**B60J 3/0265** (2013.01 - KR); **C12Q 1/001** (2013.01 - EP US); **G01N 33/54388** (2021.08 - EP KR US); **B60J 3/0239** (2013.01 - KR); **Y10S 436/808** (2013.01 - EP US); **Y10S 436/81** (2013.01 - EP US); **Y10S 436/823** (2013.01 - EP US)

Citation (search report)  
• [A] WO 9850778 A1 19981112 - SMITHKLINE DIAGNOSTICS INC [US]  
• [A] US 5853670 A 19981229 - BUNCE ROGER ABRAHAM [GB]  
• See also references of WO 2004097419A1

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**WO 2004097419 A1 20041111**; AT E403869 T1 20080815; CN 1781022 A 20060531; DE 602004015585 D1 20080918; EP 1618383 A1 20060125; EP 1618383 A4 20070110; EP 1618383 B1 20080806; JP 2006524815 A 20061102; JP 4546462 B2 20100915; KR 100599420 B1 20060710; KR 20040093048 A 20041104; US 2004214253 A1 20041028; US 7300802 B2 20071127

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